

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A measuring apparatus comprising:

quasi-electrostatic field generating means for generating a
quasi-electrostatic field of higher field strength as compared with a
radiated electric field and an induced electromagnetic field, said
quasi-electrostatic field being applied to an object to be measured;

quasi-electrostatic field detecting means for detecting a result of
interaction between said quasi-electrostatic field ~~generated by said~~
~~quasi-electrostatic field generating means and applied to an object~~
~~to be measured,~~ and an electric field corresponding to a potential
change caused by a dynamic reaction inside said object ~~to be~~
~~measured;~~ and

extracting means for extracting said potential change from said result of
interaction ~~detected by said quasi-electrostatic field detecting~~
~~means.~~

2. (Currently Amended) The measuring apparatus according to claim 1, wherein:

said object to be measured is a living body; and

~~said quasi-electrostatic field detecting means detects said result of~~
~~interaction with said electric field corresponding to said potential~~
~~change caused by~~ said dynamic reaction is a biological reaction
~~inside said living body.~~

3. (Currently Amended) The measuring apparatus according to claim 1, wherein
said quasi-electrostatic field generating means generates ~~[[said]]~~ a
plurality of quasi-electrostatic fields of ~~[[said]]~~ higher field strength
as compared with said induced electromagnetic field, at ~~each of~~
~~said~~ a plurality of distances respectively corresponding to ~~[[said]]~~ a
plurality of frequencies.
4. (Currently Amended) The measuring apparatus according to claim 1, wherein
said quasi-electrostatic field generating means generates ~~[[said]]~~ a
plurality of quasi-electrostatic fields of ~~[[said]]~~ higher field strength
as compared with said induced electromagnetic field, in a time
division manner ~~for each of said distances at each of said~~ a plurality
of distances respectively corresponding to ~~[[said]]~~ a plurality of
frequencies.
5. (Currently Amended) The measuring apparatus according to claim 3, wherein said
quasi-electrostatic field generating means comprises output adjusting means for:
adjusting ~~outputs of each voltage~~ a plurality of voltages output to a
predetermined electrode, so as to adjust a field strength of each of
said quasi-electrostatic fields to a predetermined field strength, said
plurality of voltages corresponding to ~~each of~~ said frequencies ~~to a~~
~~predetermined electrode, to make the strength of each of said~~
~~quasi-electrostatic fields generated at each of said distances~~
~~respectively corresponding to each of the frequencies become a~~
~~predetermined field strength, and~~
outputting a combined result of each of said voltages after ~~[[the]]~~ said
adjustment.

6. (Currently Amended) The measuring apparatus according to claim 4, wherein
said quasi-electrostatic field generating means comprises output adjusting
means for adjusting outputs of each voltage a plurality of voltages
output to a predetermined electrode, so as to adjust a field strength
of each of said quasi-electrostatic fields to a predetermined field
strength, said plurality of voltages corresponding to ~~each of said~~
frequencies to a predetermined electrode, to make the strength of
~~each of said quasi-electrostatic fields generated at each of said~~
~~distances respectively corresponding to each of the frequencies~~
~~become a predetermined field strength.~~
7. (Currently Amended) The measuring apparatus according to claim 1, wherein:
said quasi-electrostatic field generating means comprises a first pair of
electrodes for ~~generation~~ generating said quasi-electrostatic field
fields;
said quasi-electrostatic field detecting means comprises a second pair of
electrodes for ~~detection~~ detecting said result of interaction; and
said first pair of electrodes for ~~generation~~ and said second pair of
electrodes for ~~detection~~ are formed into a unit electrode and a
plurality of said unit electrodes are formed on ~~[[the]]~~ a same
surface.
8. (Currently Amended) A measuring method comprising:
~~a quasi-electrostatic field generating step~~ generating a quasi-electrostatic
field of higher field strength as compared with a radiated electric
field and an induced electromagnetic field, and applying said
quasi-electrostatic field to an object to be measured;

~~a quasi-electrostatic field detecting step detecting a result of interaction between said quasi-electrostatic field generated in said quasi-electrostatic field generating step and applied to an object to be measured, and an electric field corresponding to a potential change caused by a dynamic reaction inside said object to be measured; and~~

~~an extracting step extracting said potential change from said result of interaction detected in said quasi-electrostatic field detecting step.~~

9. (Currently Amended) The measuring method according to claim 8, wherein:

said object to be measured is a living body, and

~~wherein said result of interaction with said electric field corresponding to said potential change caused by said dynamic reaction is a biological reaction inside said living body is detected in said quasi-electrostatic field detecting step.~~

10. (Currently Amended) The measuring method according to claim 8, wherein

~~[[said]] a plurality of quasi-electrostatic fields of [[said]] higher field strength as compared with said induced electromagnetic field are generated at ~~each of said~~ a plurality of distances respectively corresponding to a plurality of [[said]] frequencies ~~are generated in said quasi-electrostatic field generating step.~~~~

11. (Currently Amended) The measuring method according to claim 8, wherein

~~[[said]] a plurality of quasi-electrostatic fields of [[said]] higher field strength as compared with said induced electromagnetic field are generated in time division manner ~~for each of said distances at each of said~~ a~~

plurality of distances respectively corresponding to a plurality of
[[said]] frequencies in ~~said quasi-electrostatic field generating step~~.

12. (Currently Amended) The measuring method according to claim 10, wherein
generating said quasi-electrostatic fields ~~field generating step~~ comprises:

~~output adjusting step~~ adjusting outputs of each voltage a plurality of
voltages output to a predetermined electrode, so as to adjust a field
strength of each of said quasi-electrostatic fields to a
predetermined field strength, said plurality of voltages
corresponding to ~~each of~~ said frequencies to a ~~predetermined~~
~~electrode, to make the strength of each of said quasi-electrostatic~~
~~fields generated at said distances respectively corresponding to~~
~~each of the frequencies become a predetermined field strength,~~
and
outputting a combined result of each of said voltages after [[the]] said
adjustment.

13. (Currently Amended) The measuring method according to claim 11, wherein

generating said quasi-electrostatic fields ~~field generating step~~ comprises
~~output adjusting step~~ adjusting outputs of each voltage a plurality of
voltages output to a predetermined electrode, so as to adjust a field
strength of each of said quasi-electrostatic fields to a
predetermined field strength, said plurality of voltages
corresponding to ~~each of~~ said frequencies to a ~~predetermined~~
~~electrode, to make the strength of each of said quasi-electrostatic~~
~~fields generated at said distances respectively corresponding to~~
~~each of the frequencies become a predetermined field strength.~~

14. (Currently Amended) A measuring apparatus comprising:

quasi-electrostatic field detecting means for detecting potential changes caused by biological reactions inside a living body; and

extracting means for extracting one of said potential changes caused by predetermined one of said biological reactions from said potential changes detected by said quasi-electrostatic field detecting means.

15. (Currently Amended) A measuring method comprising:

~~quasi-electrostatic field detecting step~~ detecting potential changes caused by biological reactions inside a living body; and

~~extracting step~~ extracting one of said potential ~~change~~ changes caused by predetermined one of said biological reactions from said potential changes detected in said quasi-electrostatic field detecting step.